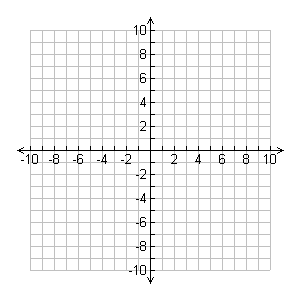
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| Michael T. Davis  Algebra II – Delta & Eta | | What Does Vertex Form Tell Us?  May 14, 2015 | |
| Name: | |

**Part 1: Predicting x-intercepts**

How many x-intercepts will each graph have?



1. f(x) = –(x – 2)2 + 4

2. f(x) = 3(x + 1)2 + 5

3. f(x) = -5(x – 4)2 – 8

4. f(x) = 4(x + 6)2

In general, when you have the vertex form of a quadratic function, how can you predict the number of x-intercepts the parabola will have?